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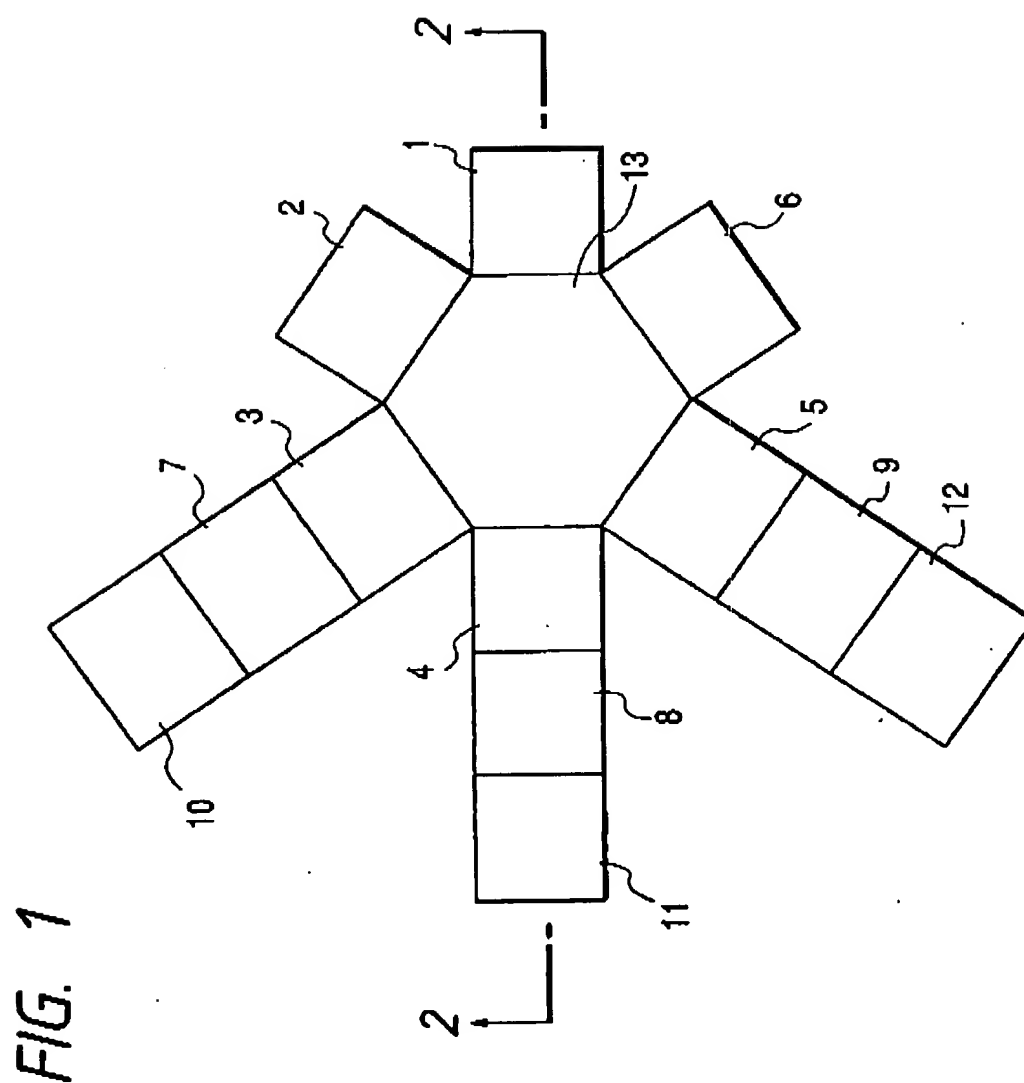
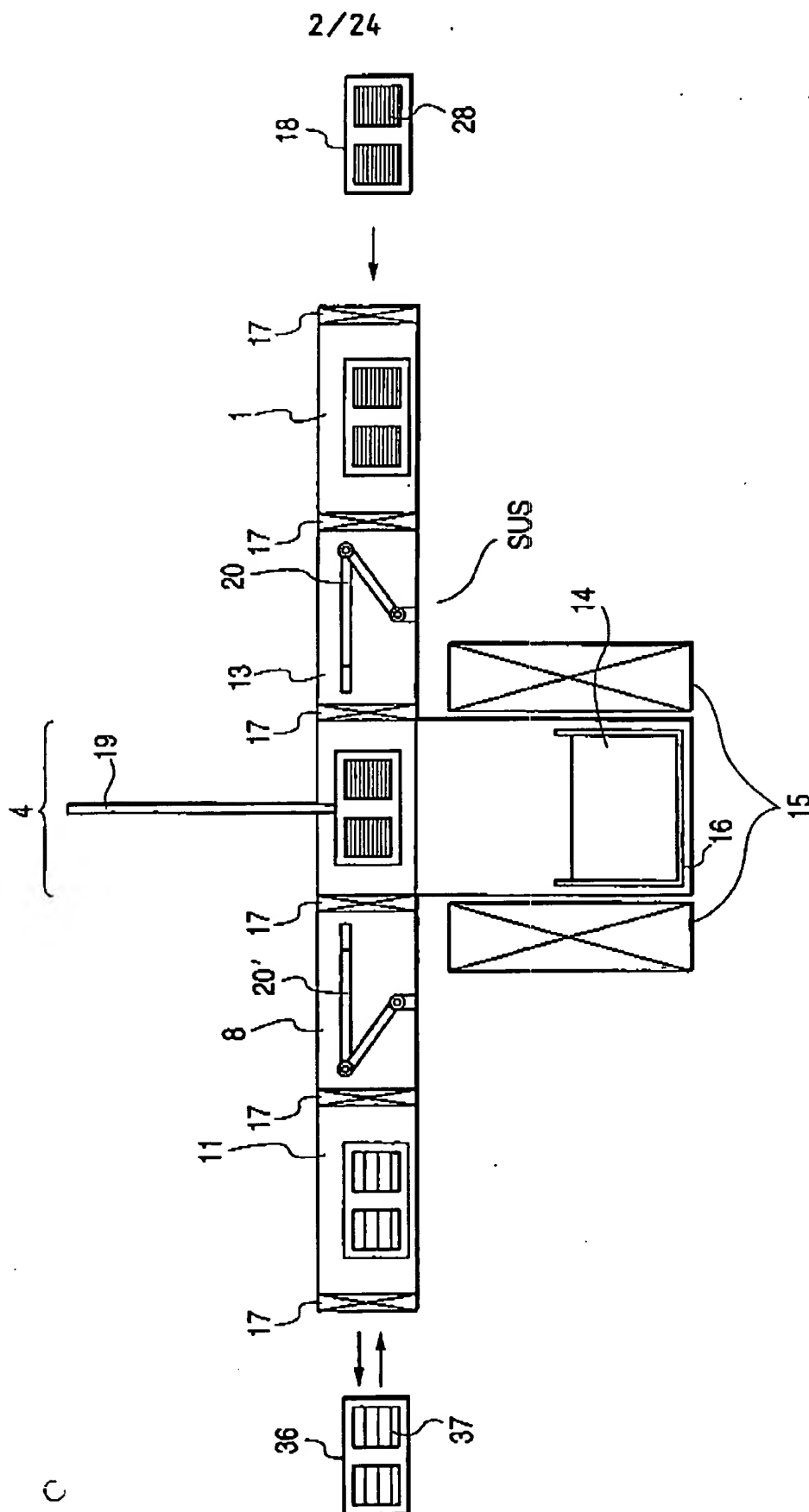


FIG. 2



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FIG. 3A

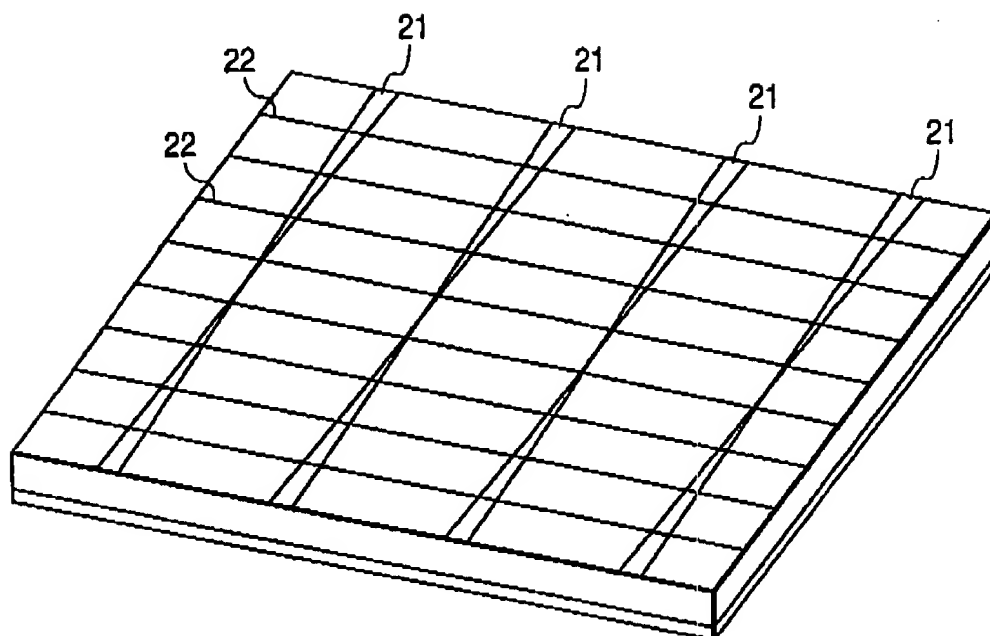
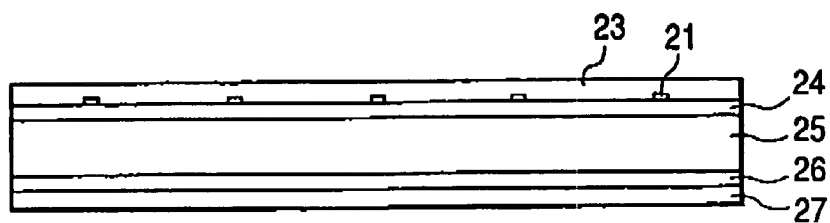


FIG. 3B



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FIG. 4A

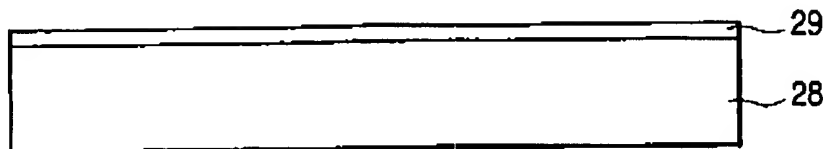


FIG. 4B

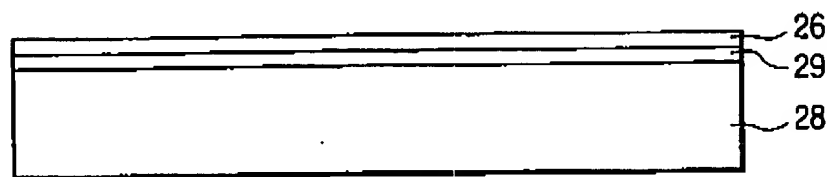


FIG. 4C

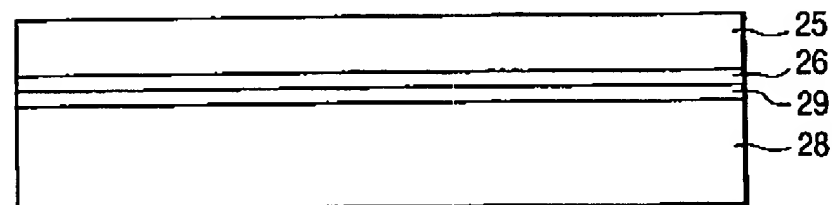


FIG. 4D

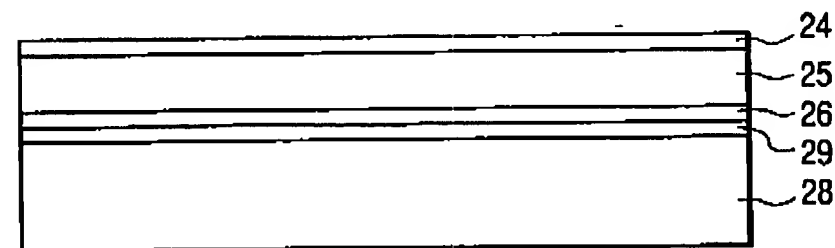
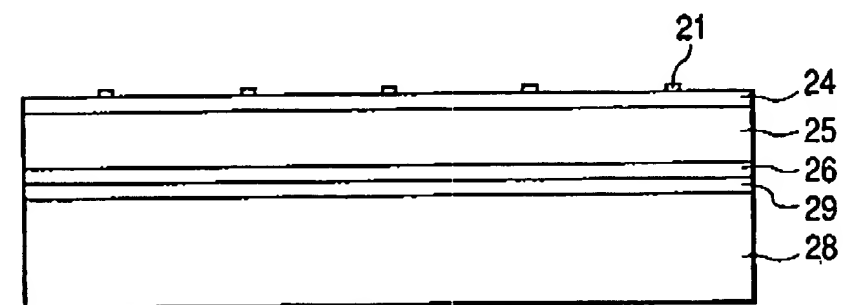


FIG. 4E



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FIG. 5A

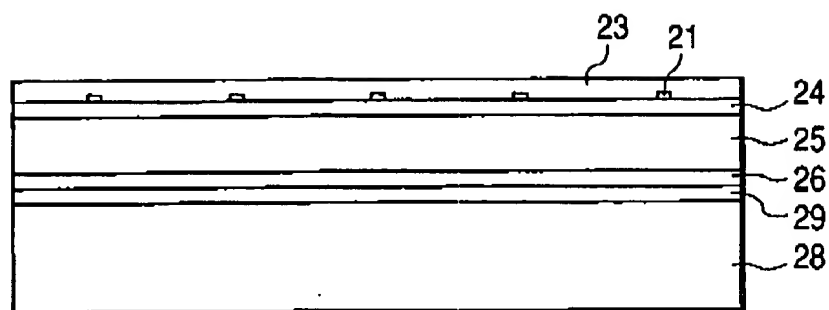


FIG. 5B

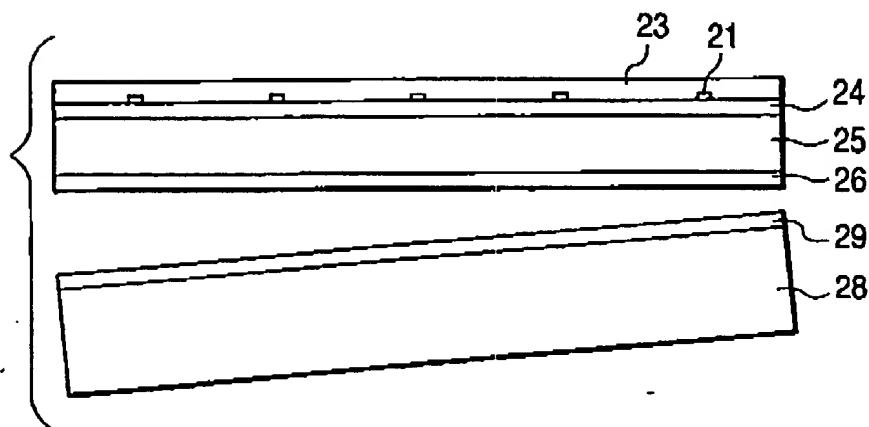
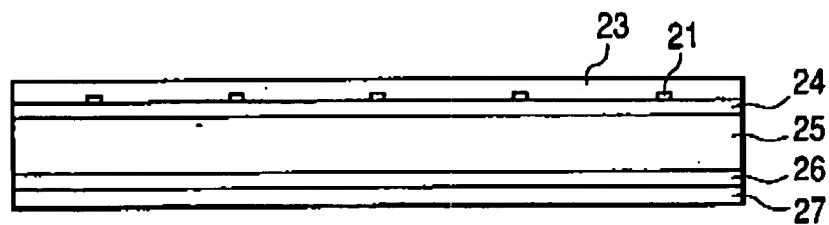


FIG. 5C



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FIG. 6A

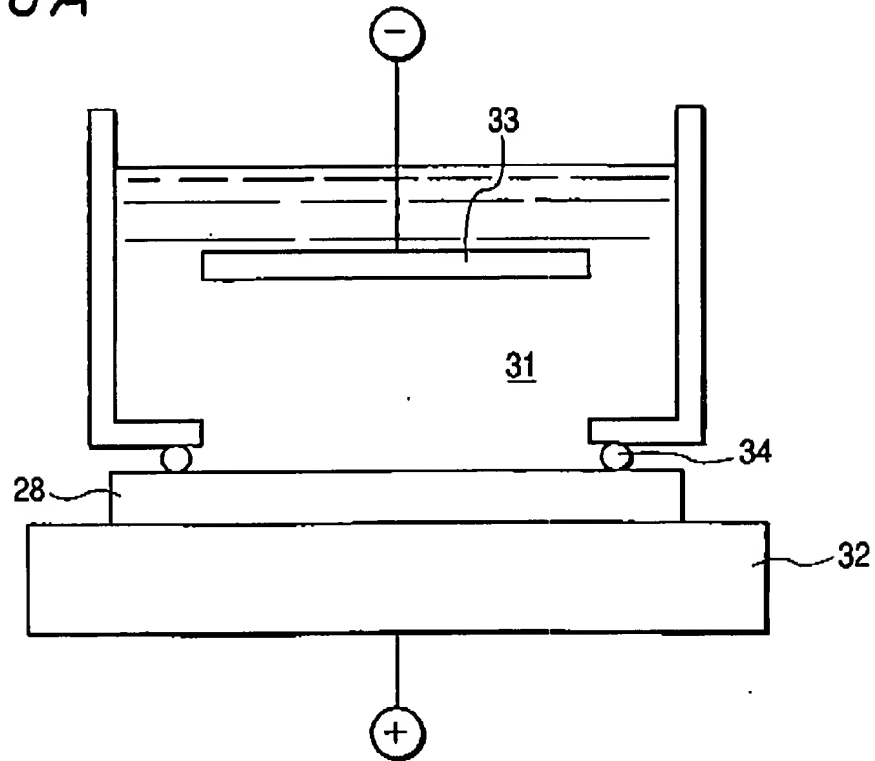
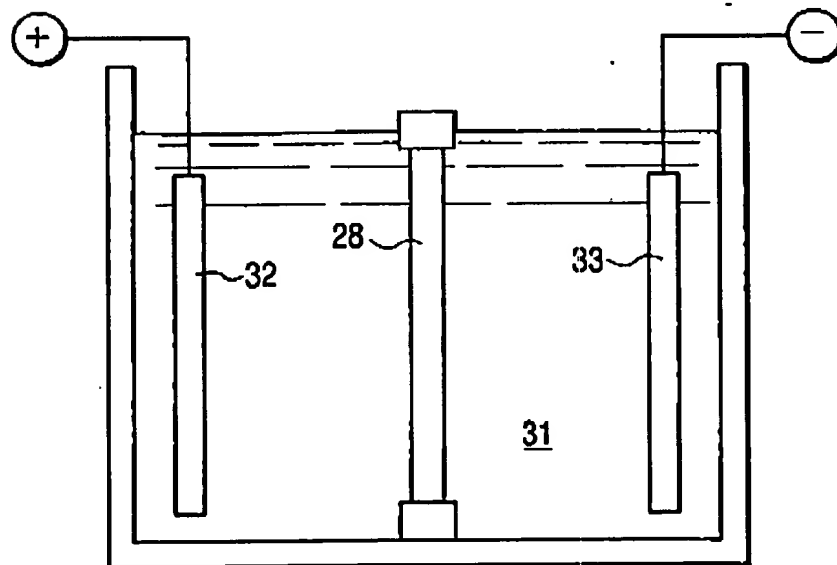


FIG. 6B



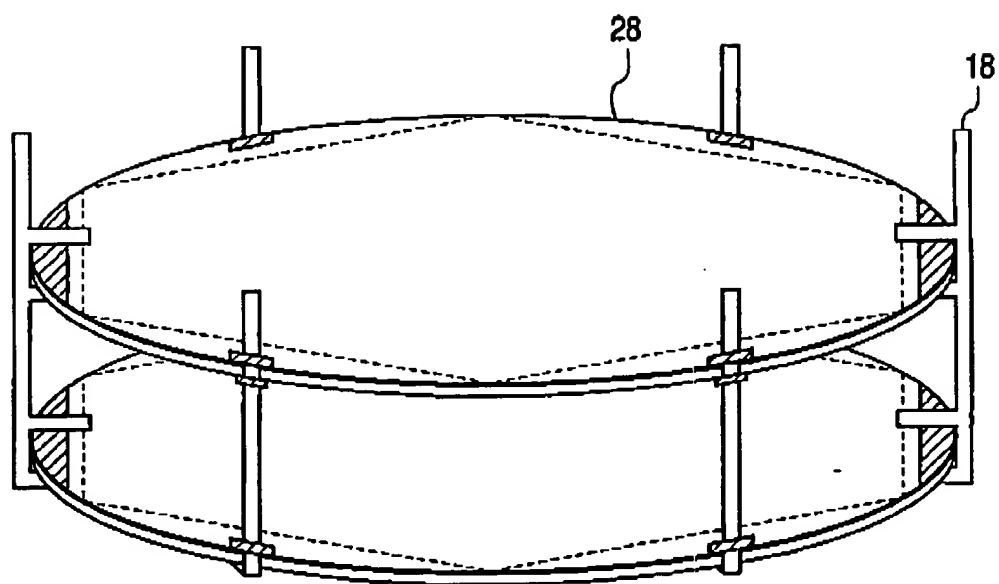
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FIG. 7 THREE-CRUCIBLE LIQUID-PHASE GROWTH SYSTEM SEQUENCE (A: FIRST BATCH (B: SECOND BATCH))

TIME (min.)	10	20	30	40	50	70	80	90	100	110	130	140	150	160	170	190	200	210	220	230
C L/C																				
H ₂ (ANNEALING)																				
Epi (p ⁺ -LAYER)																				
Epi (p ⁻ -LAYER)																				
Epi (n ⁺ -LAYER)																				
UL/C																				

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FIG. 8



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FIG. 9A

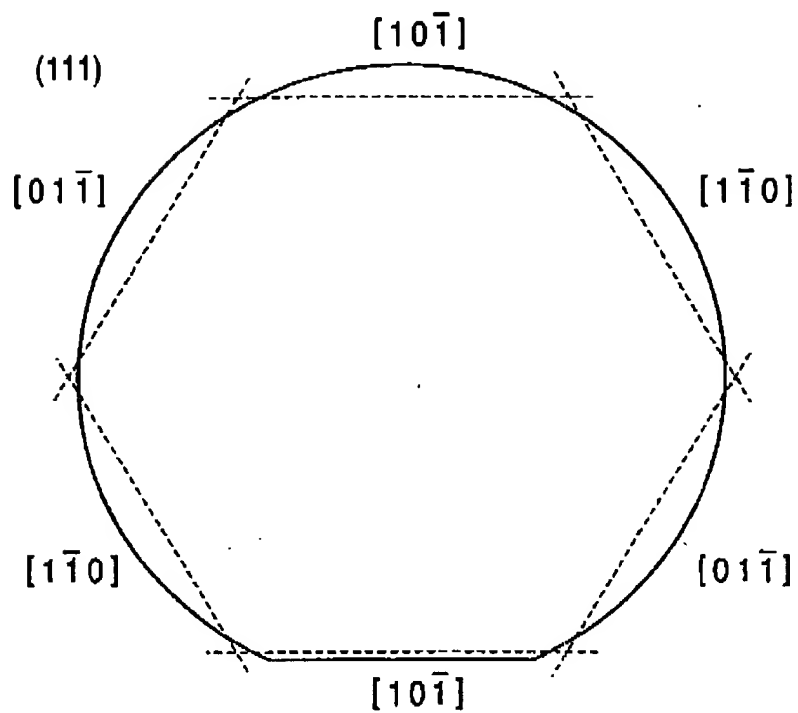
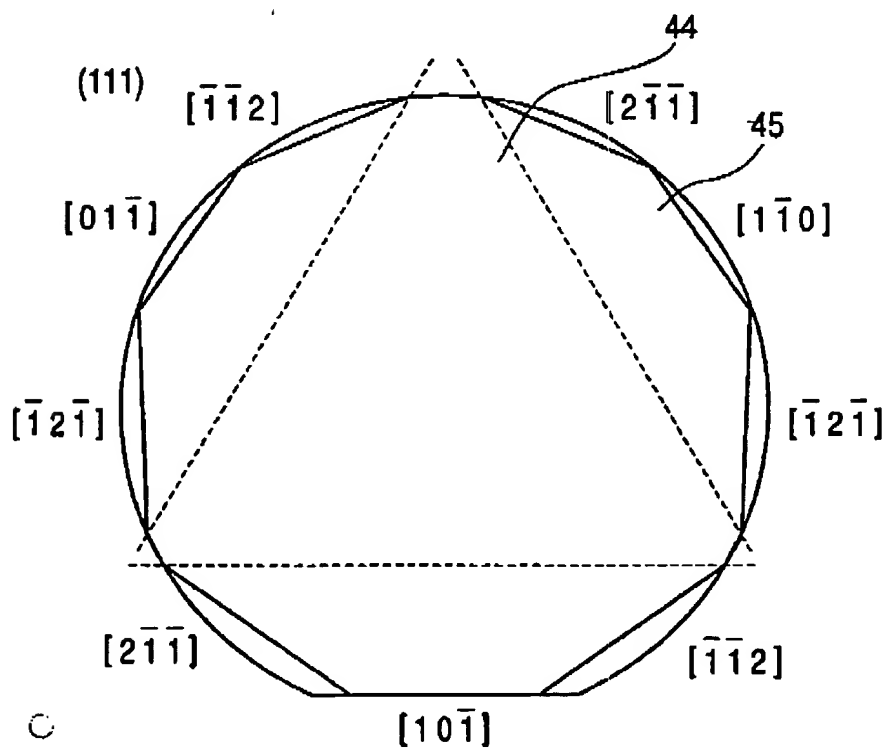
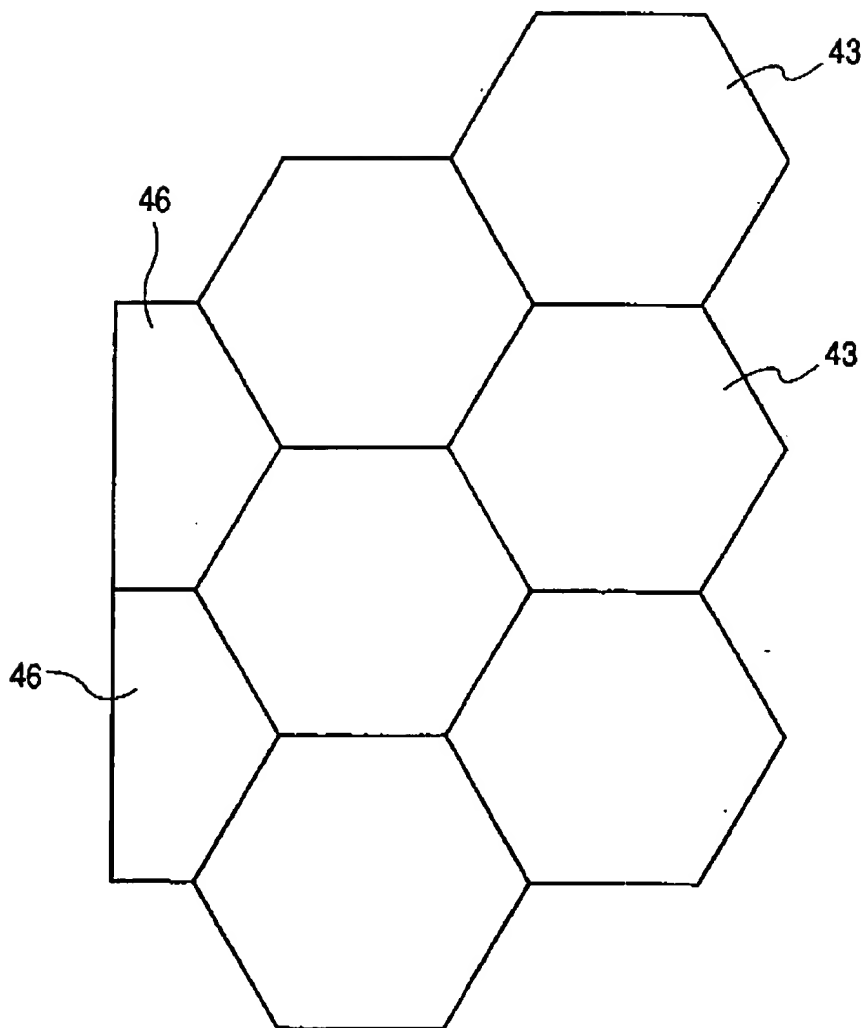


FIG. 9B

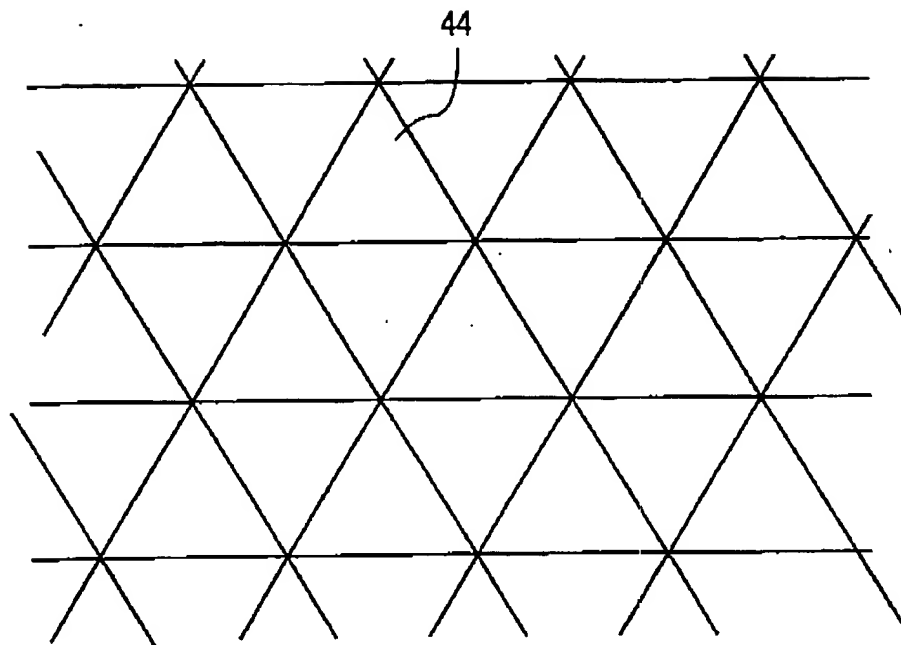
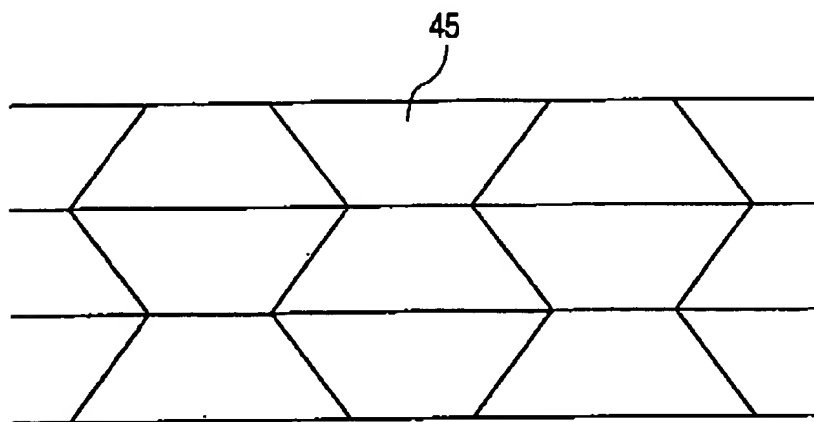


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FIG. 10



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FIG. 11A*FIG. 11B*

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FIG. 12A

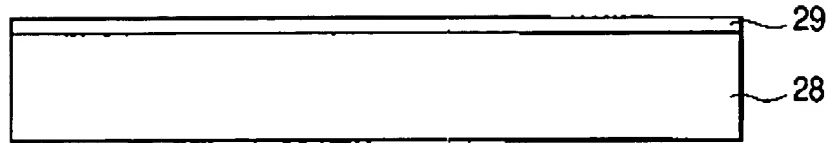


FIG. 12B

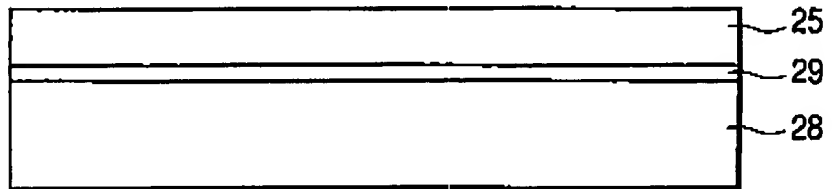


FIG. 12C

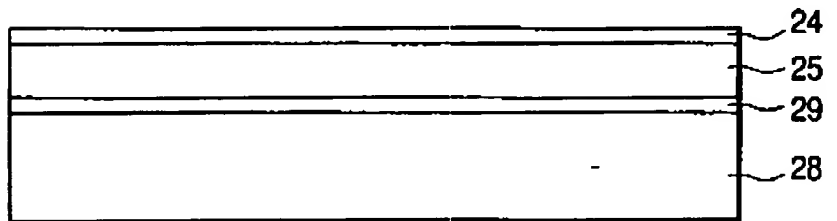
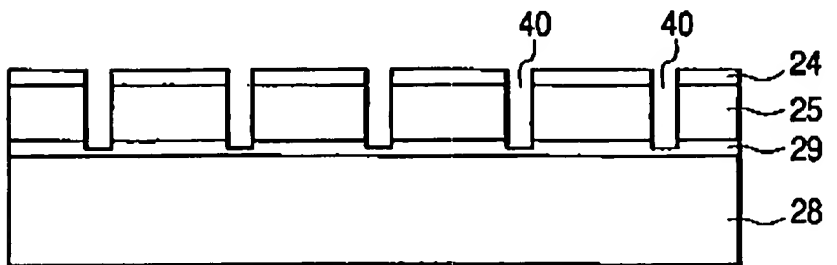


FIG. 12D



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FIG. 13A

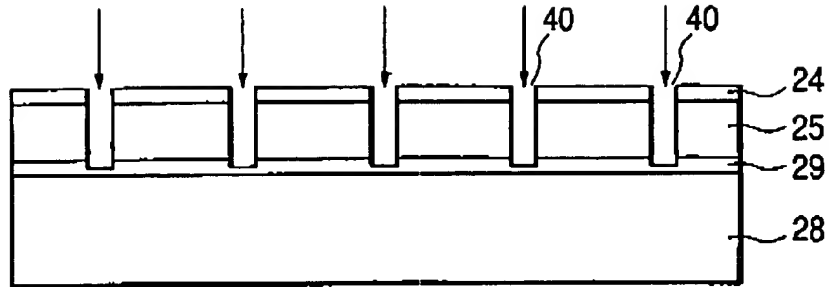


FIG. 13B

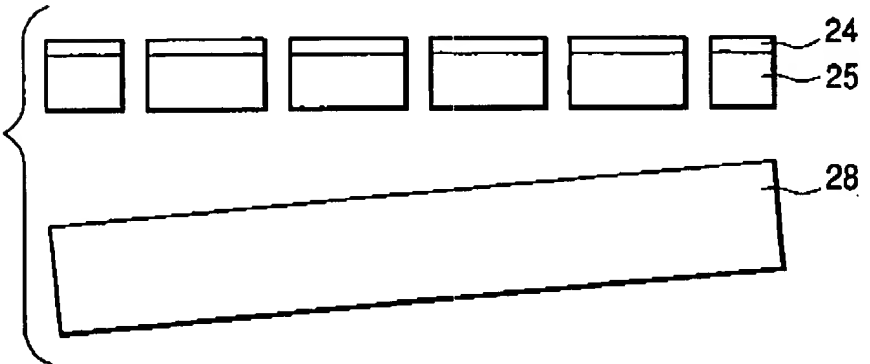


FIG. 13C



FIG. 13D

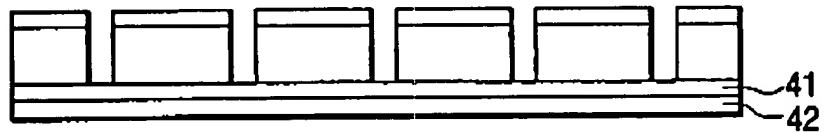
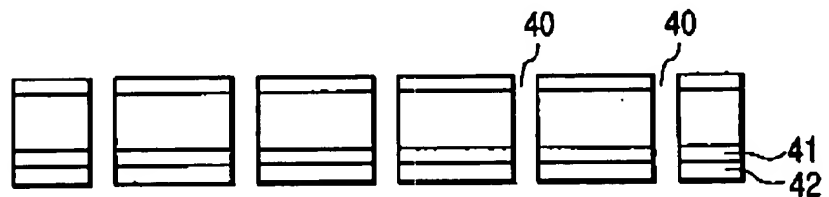


FIG. 13E



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FIG. 14A

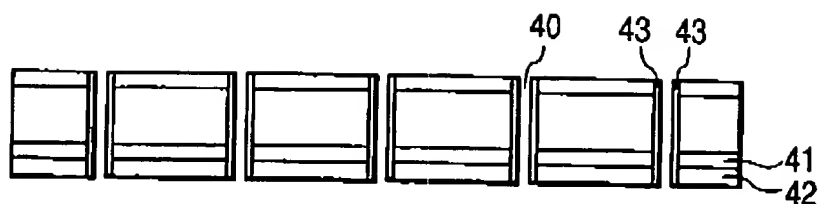


FIG. 14B

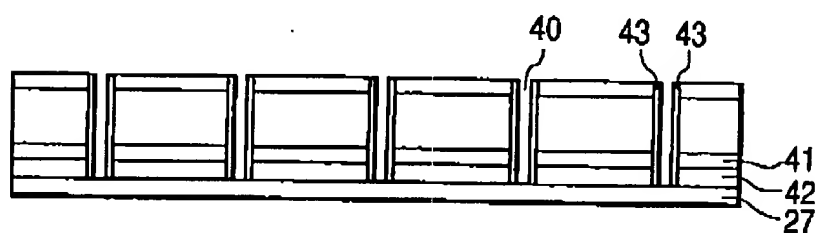


FIG. 14C

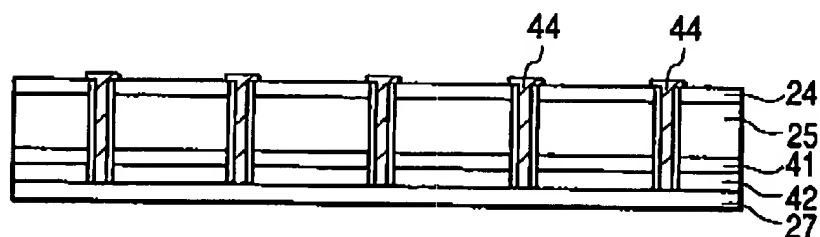
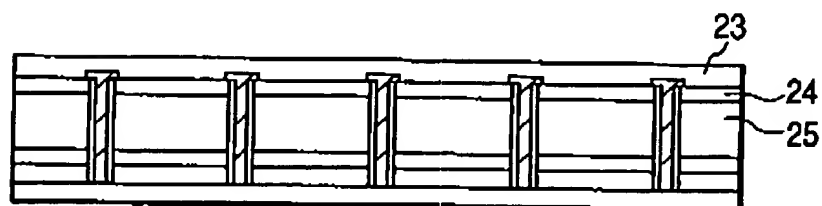


FIG. 14D



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FIG. 15

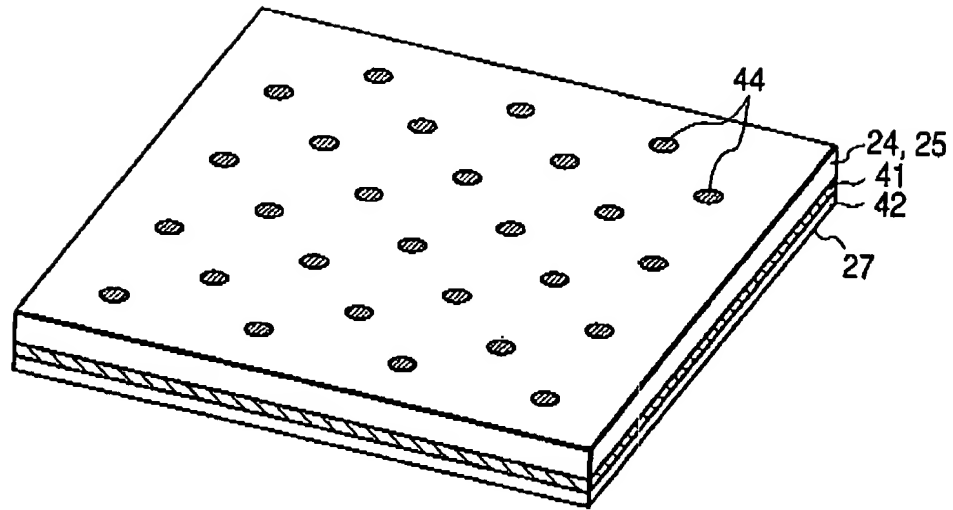
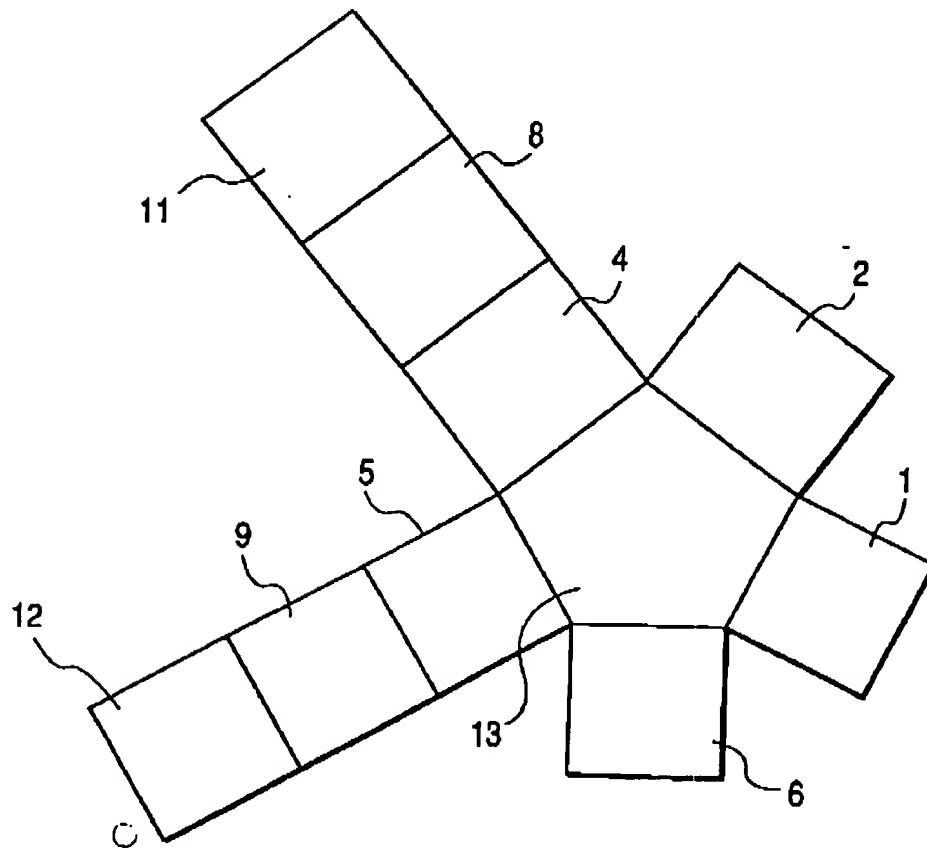
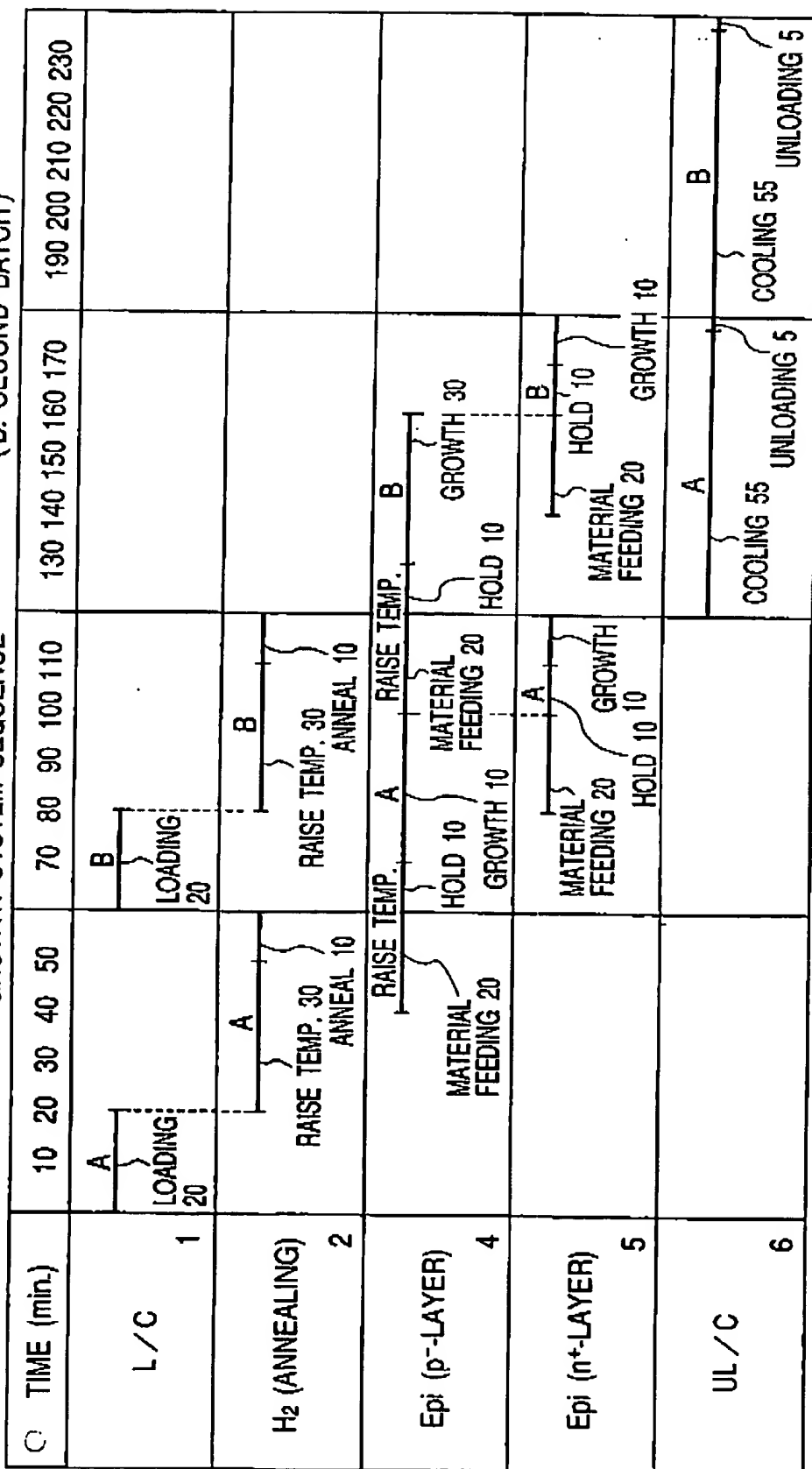


FIG. 16



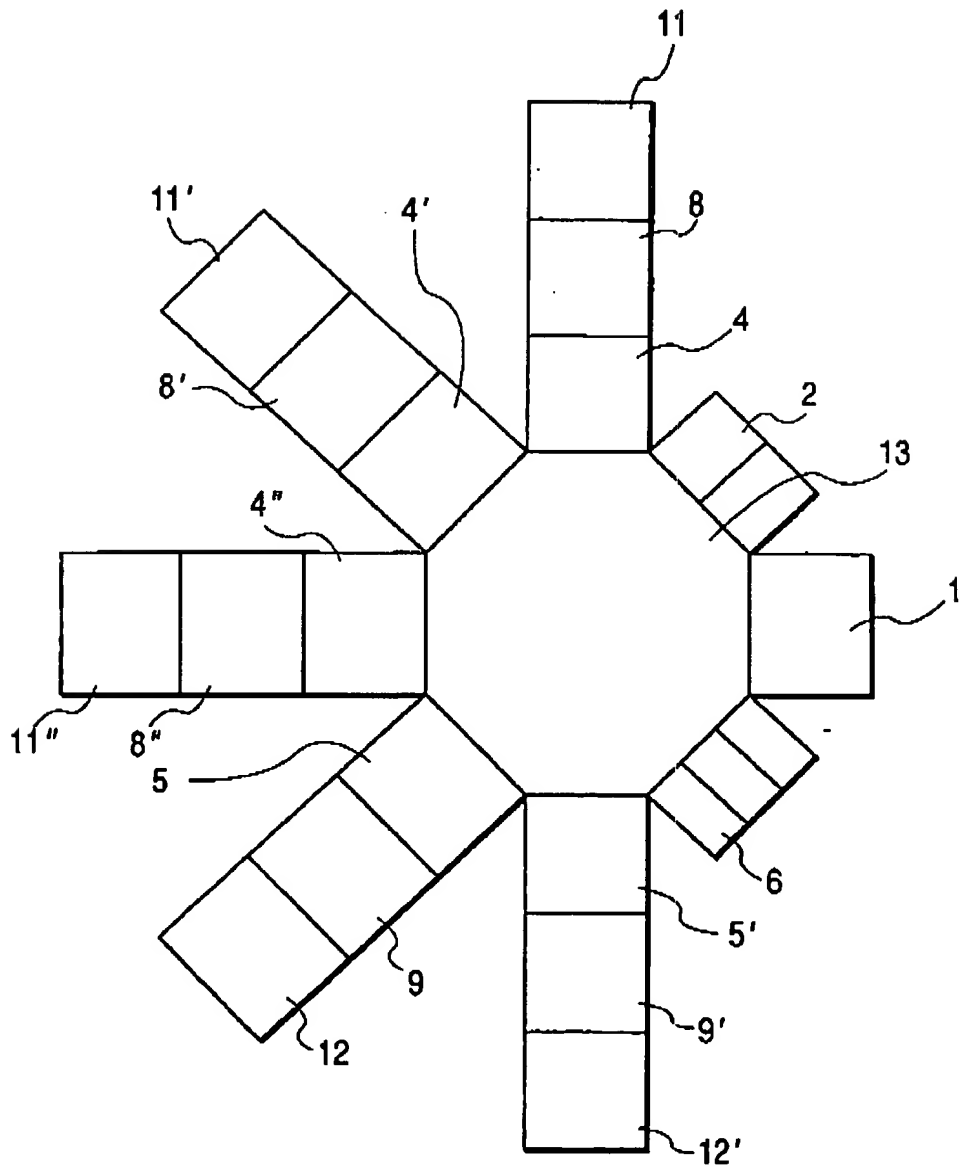
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FIG. 17 TWO-CRUCIBLE LIQUID-PHASE GROWTH SYSTEM SEQUENCE
(A: FIRST BATCH
(B: SECOND BATCH)



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FIG. 18



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FIG. 19B

FROM FIG. 19A

Epi (p ⁻ -LAYER) 4"	RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 30 C			
Epi (n ⁺ -LAYER) 5	RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 10 A	RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 10 C		
Epi (n ⁺ -LAYER) 5"	RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 10 B	RAISE TEMP. GROWTH 10 HOLD 10 MATERIAL FEEDING 20 D		
UL/C 6			A COOLING UNLOADING 55 B COOLING 55 C UNLOADING 5 D COOLING UNLOADING 55 UNLOADING 5 UNLOADING 5	

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FIG. 20A

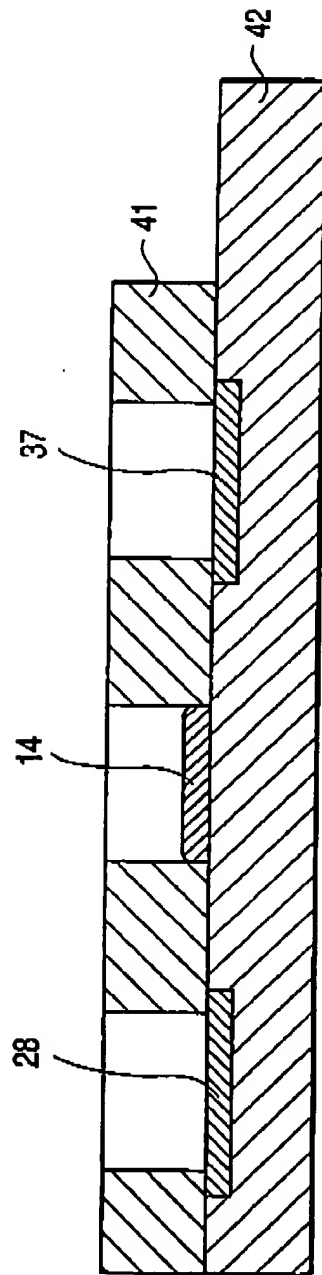


FIG. 20B

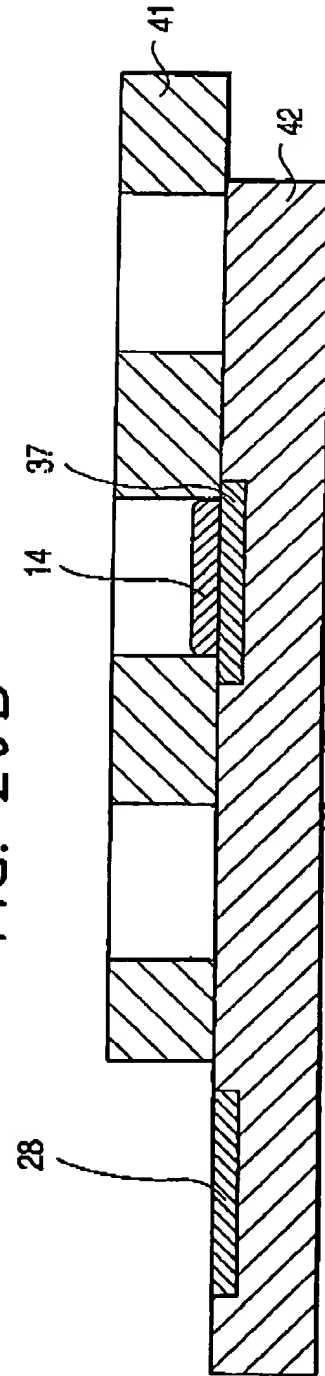


FIG. 21A

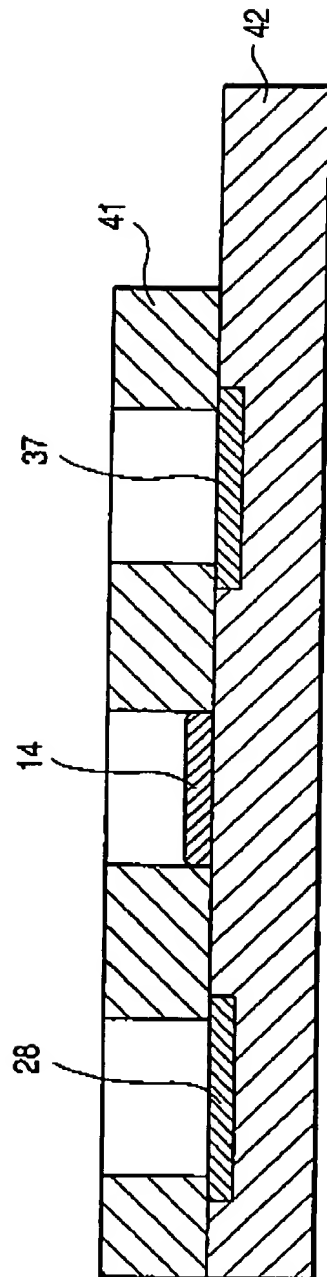
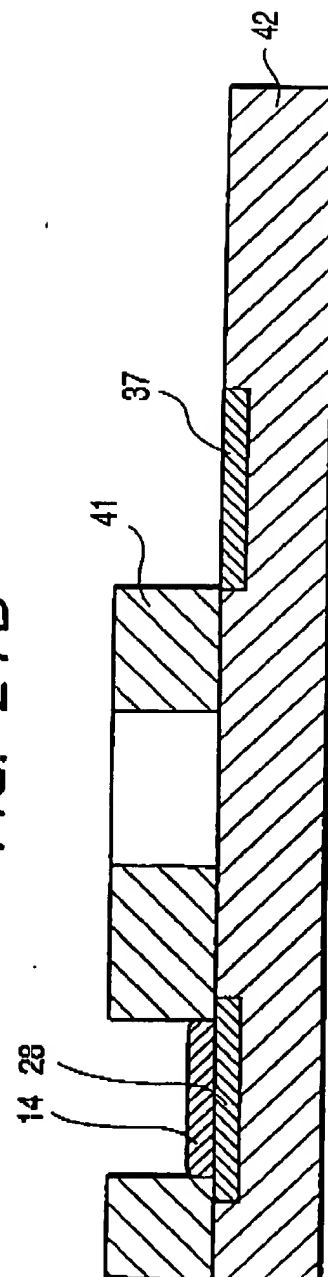


FIG. 21B



BEST AVAILABLE COPY

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FIG. 22B

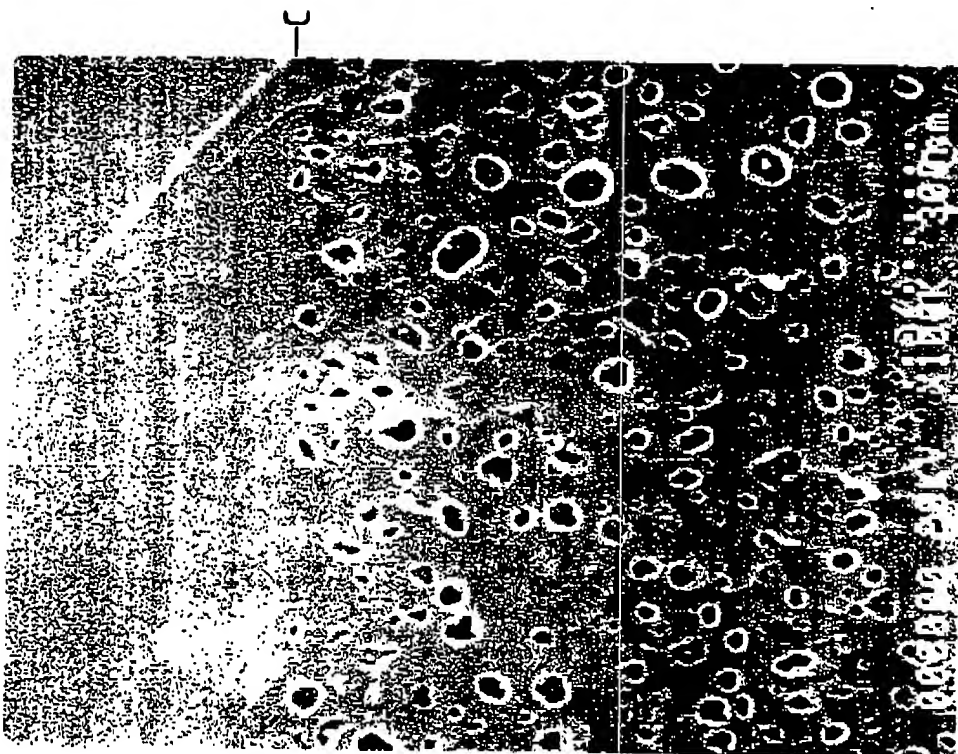
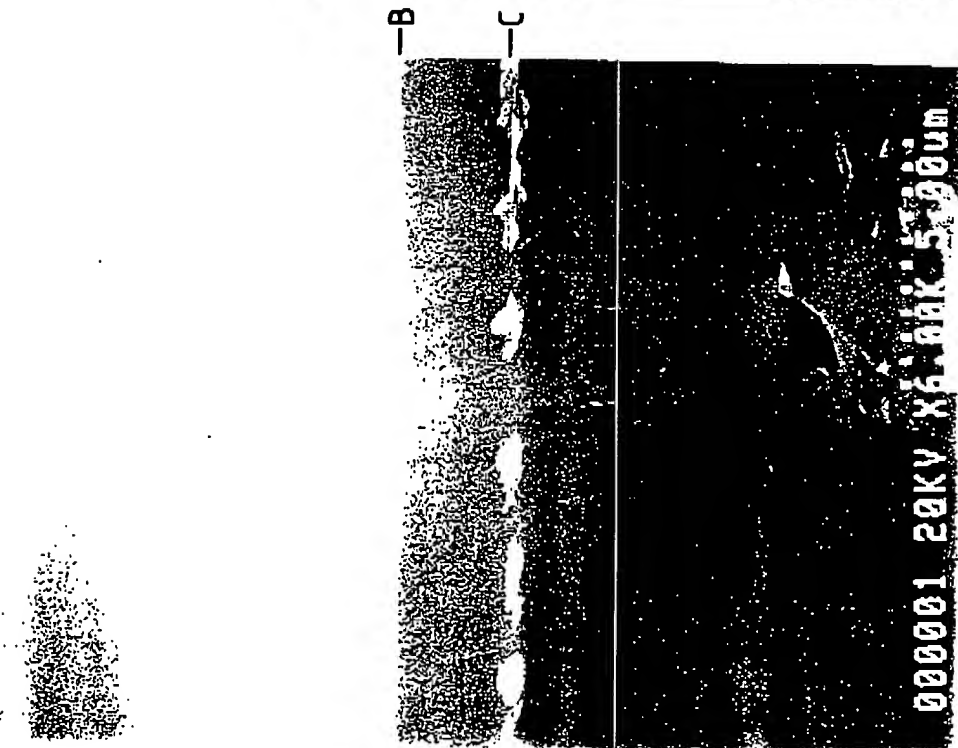


FIG. 22A



BEST AVAILABLE COPY

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FIG. 23B

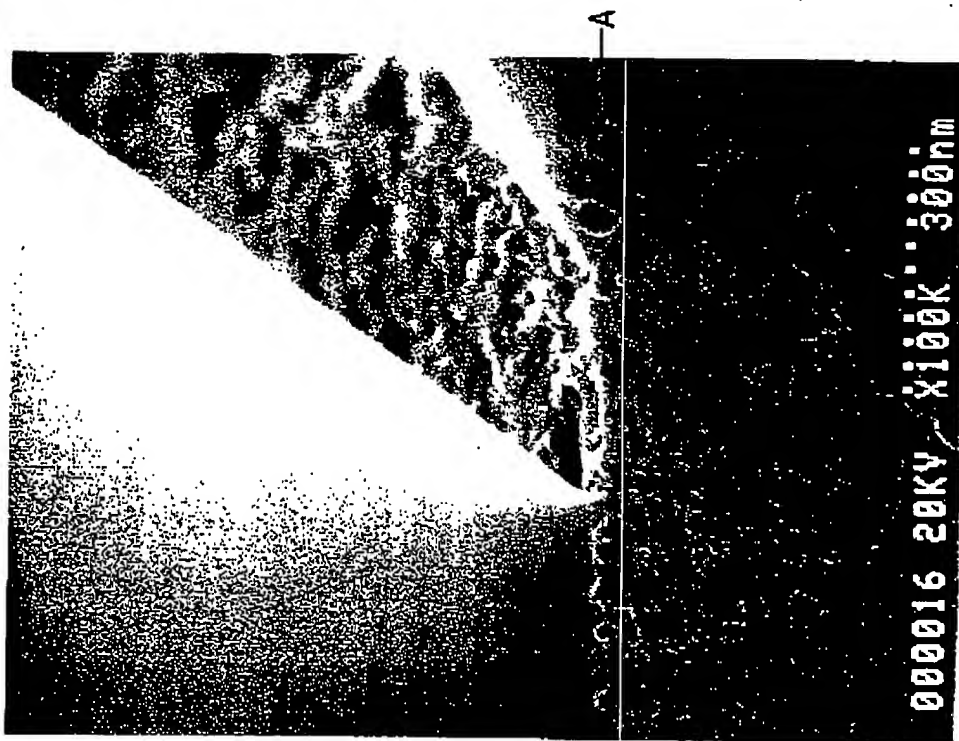
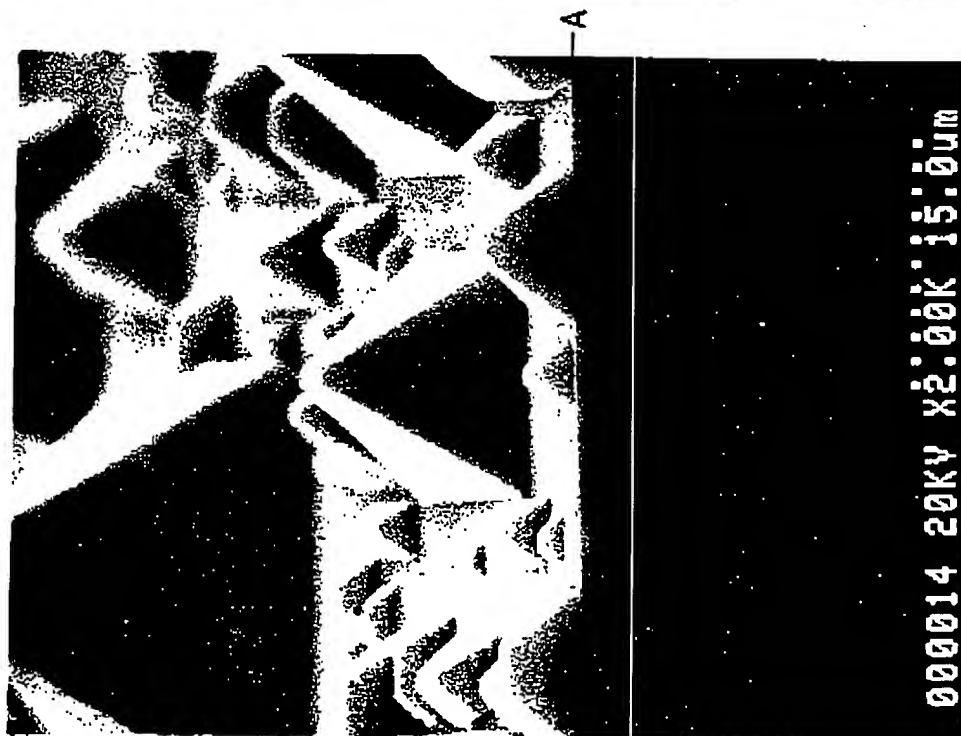


FIG. 23A



C

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FIG. 24

